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<b>Substitute for form 1449A/PTO</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)				<b>Application Number</b>	09/732,181
				<b>Filing Date</b>	12/6/00
				<b>First Named Inventor</b>	Steven Teig
				<b>Group Art Unit</b>	Leigh M. Garbowski
				<b>Examiner Name</b>	2825
<b>Sheet</b>	1	<b>of</b>	4	<b>Attorney Docket Number</b>	SPLX.P0003

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RELATED U.S. PATENT DOCUMENTS						
Examiner Initials	Cite No. <sup>1</sup>	U.S. Patent Document		Date of filing MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Related Application Data
		Number				
VP	1.	2002/0133798		12-06-2000	Steven Teig et al.	Application regarding related placement technology.
	2.	2002/0073390 S/N 09/737,210		12-13-2000	Steven Teig et al.	Continuation of 2002/0133798
	3.	Preliminary Amendment S/N 09/737,210		12-13-2000	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2002/0073390 does not accurately reflect the claims of S/N 09/737,210.
	4.	S/N 09/737,220		12-13-2000	Steven Teig et al.	Continuation of 2002/0133798
	5.	S/N 09/737,245		12-13-2000	Steven Teig et al.	Continuation of 2002/0133798
	6.	S/N 09/739,460		12-15-2000	Steven Teig et al.	Continuation of present application
	7.	2002/0124231 S/N 09/739,580		12-15-2000	Steven Teig et al.	Continuation of present application
	8.	Preliminary Amendment S/N 09/739,580		12-15-2000	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2002/0124231 does not accurately reflect the claims of S/N 09/739,580.
	9.	S/N 09/739,589		12-15-2000	Steven Teig et al.	Continuation of present application
	10.	S/N 09/742,171		12-19-2000	Steven Teig et al.	Continuation of present application
	11.	2003/0121015 S/N 09/745,067		12-19-2000	Steven Teig et al.	Continuation of present application
	12.	Preliminary Amendment S/N 09/745,067		12-19-2000	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2003/0121015 does not accurately reflect the claims of S/N 09/745,067.
	13.	2002/0069397		01-13-2002	Steven Teig et al.	CIP of the present application.
	14.	2002/0170027		02-20-2002	Steven Teig et al.	CIP of present application
	15.	2002/0157075		02-20-2002	Steven Teig et al.	CIP of present application

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				<b>Group Art Unit</b>	Leigh M. Garbowski
				<b>Examiner Name</b>	2825
<b>Sheet</b>	2	<b>of</b>	4	<b>Attorney Docket Number</b>	SPLX.P0003

RELATED U.S. PATENT DOCUMENTS					
16.	2003/0088841 S/N 10/329,241		12-23-2002	Steven Teig et al.	CIP of 2002/0133798
17.	Preliminary Amendment S/N 10/329,241		12-23-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2003/0088841 does not accurately reflect the claims of S/N 10/329,241.
18.	2003/0018947		12-07-2001	Steven Teig et al.	Application regarding related routing technology
19.	2002/0147958		10-19-2001	Steven Teig et al.	Application regarding related routing technology
20.	2003/0079193		12-07-2001	Steven Teig et al.	Application regarding related routing technology
21.	2003/0063614		01-04-2002	Steven Teig et al.	Application regarding related routing technology
22.	2003/0064559		01-04-2002	Steven Teig et al.	Application regarding related routing technology
23.	2003/0063568		01-04-2002	Steven Teig et al.	Application regarding related routing technology
24.	2003/0101428 S/N 10/040,915		01-05-2002	Steven Teig et al.	Application regarding related routing technology
25.	Preliminary Amendment S/N 10/040,915		01-05-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2003/0101428 does not accurately reflect the claims of S/N 10/040,915.
26.	2002/0166105 S/N 10/040,948		01-05-2002	Steven Teig et al.	Application regarding related routing technology
27.	Preliminary Amendment S/N 10/040,948		01-05-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2002/0166105 does not accurately reflect the claims of S/N 10/040,948.
28.	2003/0043827 S/N 10/040,953		01-05-2002	Steven Teig et al.	Application regarding related routing technology
29.	Preliminary Amendment		01-05-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2003/0043827 does not

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				<b>Group Art Unit</b>	Leigh M. Garbowski
				<b>Examiner Name</b>	2825
<b>Sheet</b>	3	<b>of</b>	4	<b>Attorney Docket Number</b>	SPLX.P0003

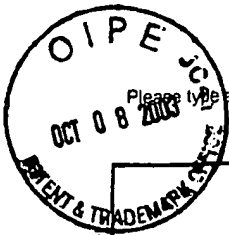
RELATED U.S. PATENT DOCUMENTS					
W		S/N 10/040,953			accurately reflect the claims of S/N 10/040,953.
M	30.	2003/0023943 S/N 10/040,954	01-05-2002	Steven Teig et al.	Application regarding related routing technology
	31.	Preliminary Amendment S/N 10/040,954	01-05-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2003/0023943 does not accurately reflect the claims of S/N 10/040,954.
	32.	2003/0066042 S/N 10/040,963	01-05-2002	Steven Teig et al.	Application regarding related routing technology
	33.	Preliminary Amendment S/N 10/040,963	01-05-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2003/0066042 does not accurately reflect the claims of S/N 10/040,963.
	34.	2002/0174412 S/N 10/041,942	01-07-2002	Steven Teig et al.	Application regarding related routing technology
	35.	Preliminary Amendment S/N 10/041,942	01-07-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2002/0174412 does not accurately reflect the claims of S/N 10/040,942.
	36.	2003/0088844 S/N 10/041,957	01-07-2002	Steven Teig et al.	Application regarding related routing technology
	37.	Preliminary Amendment S/N 10/041,957	01-07-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2003/0088844 does not accurately reflect the claims of S/N 10/041,957.
	38.	2002/0199165 S/N 10/046,864	01-13-2002	Steven Teig et al.	Application regarding related routing technology
	39.	Preliminary Amendment S/N 10/046,864	01-13-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2002/0199165 does not accurately reflect the claims of S/N 10/046,864.
	40.	2003/0066043	01-13-2002	Steven Teig et al.	Application regarding related routing technology

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<b>Sheet</b>	4	<b>of</b>	4	<b>Attorney Docket Number</b>	SPLX.P0003

RELATED U.S. PATENT DOCUMENTS					
<input checked="" type="checkbox"/>	41.	2003/0115566	01-13-2002	Steven Teig	Application regarding related routing technology
<input checked="" type="checkbox"/>	42.	2003/0056187 S/N 10/047,982	01-14-2002	Steven Teig et al.	Application regarding related routing technology
<input checked="" type="checkbox"/>	43.	Preliminary Amendment S/N 10/047,982	01-14-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2003/0056187 does not accurately reflect the claims of S/N 10/047,982.
<input checked="" type="checkbox"/>	44.	2003/0066044	01-13-2002	Steven Teig et al.	Application regarding related routing technology
<input checked="" type="checkbox"/>	45.	2003/0066045	01-13-2002	Steven Teig et al.	Application regarding related routing technology
<input checked="" type="checkbox"/>	46.	2003/0088845 S/N 10/047,978	01-13-2002	Steven Teig et al.	Application regarding related routing technology
<input checked="" type="checkbox"/>	47.	Preliminary Amendment S/N 10/047,978	01-13-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2003/0088845 does not accurately reflect the claims of S/N 10/047,978.

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				Filing Date	12/6/00
				First Named Inventor	Steven Teig
				Group Art Unit	2161
				Examiner Name	
Sheet	1	of	3	Attorney Docket Number	SPLX.P0003

U.S. PATENTS RELATED TO THE PRESENT APPLICATIONS						
Examiner* Initials	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication MM-DD-YYYY	Relation to Present Application
		Number	Kind Code* (if known)			
	1.	6,516,455	B1	Teig, et al.	02-04-03	

U.S. PATENT DOCUMENTS						
Examiner* Initials	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code* (If known)			
W	2.	2001/ 0003843	A1	Scepanovic et al.	06-14-01	
	3.	4,615,011		Linsker	09-30-86	
	4.	5,097,422		Corbin, II et al.	03-17-92	
	5.	5,532,934		Rostoker	07-12-96	
	6.	5,566,078		Ding et al.	10-15-96	
	7.	5,578,840		Scepanovic et al.	11-26-96	
	8.	5,634,093		Ashida et al.	05-27-97	
	9.	5,636,125		Rostoker et al.	06-03-97	
	10.	5,650,653		Rostoker et al.	07-22-97	
	11.	5,742,086		Rostoker et al.	04-21-98	
	12.	5,757,656		Hershberger et al.	05-26-98	
	13.	5,777,360		Rostoker et al.	07-07-98	
	14.	5,811,863		Rostoker et al.	09-22-98	
	15.	5,822,214		Rostoker et al.	10-13-98	
	16.	5,859,449		Kobayashi et al.	01-12-99	
	17.	5,898,597		Scepanovic et al.	04-27-99	
	18.	5,914,887		Scepanovic et al.	06-22-99	
	19.	5,973,376		Rostoker et al.	10-26-99	
	20.	6,035,108		Kikuchi	03-07-00	
	21.	6,058,254		Scepanovic et al.	05-02-00	

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				Group Art Unit	2161
				Examiner Name	
Sheet	2	of	3	Attorney Docket Number	SPLX.P0003

U.S. PATENT DOCUMENTS						
22.	6,068,662		Scepanovic et al.	05-30-00		
23.	6,123,736		Pavisc et al.	09-26-00		
24.	6,134,702		Scepanovic et al.	10-17-00		
25.	6,155,725		Scepanovic et al.	12-05-00		
26.	6,175,950		Scepanovic et al.	01-16-01		
27.	6,216,252	B1	Dangelo et al.	04-10-01		
28.	6,230,306	B1	Raspopovic et al.	05-08-01		
29.	6,247,167	B1	Raspopovic et al.	06-12-01		
30.	6,249,902	B1	Igusa et al.	06-19-01		
31.	6,260,179	B1	Ohsawa et al.	07-10-01		
32.	6,262,487	B1	Igarashi et al.	07-17-01		
33.	6,289,495	B1	Raspopovic et al.	09-11-01		
34.	6,301,686	B1	Kikuchi et al.	10-09-01		
35.	6,385,758	B1	Kikuchi et al.	05-07-02		
36.	6,401,234	B1	Alpert et al.	06-04-02		
37.	6,405,358	B1	Nuber	06-11-02		
38.	6,412,097	B1	Kikuchi et al.	06-25-02		
39.	6,436,804	B2	Igarashi et al.	08-20-02		
40.	6,463,575	B1	Takahashi	10-08-02		

FOREIGN PATENT DOCUMENTS						
Examiner Initials	Cite No. <sup>1</sup>	Foreign Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Office <sup>2</sup>	Number <sup>4</sup>			
W	41.	JP	64-15947	Ouchi	01-19-89	

### NON PATENT LITERATURE DOCUMENTS

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		Sheet	3	of	3

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>6</sup>
	42.	A.H. Farrahi et al., Quality of EDA CAD Tools: Definitions, Metrics and Directions, Quality Electronic Design, 2000, Proceedings of the first International Symposium on March 2000, pp 395-405.	
	43.	C. Chiang, et al., Wirability of Knock-Knee Layouts with 45° Wires, IEEE Transactions on Circuits and Systems, Vol. 38, Issue 6, pp 613-624, June 1991.	
	44.	J. Su et al., Post-Route Optimization for Improved Yield Using Rubber-Band Wiring Model, 1997 International Conference on Computer-Aided Design, pp 700-706, November 1997.	
	45.	J. Vicente, RSR: A New Rectilinear Steiner Minimum Tree Approximation for FPGA Placement and Global Routing, Proceedings of the 24 <sup>th</sup> Euro Micro Conference, pp 192-195, August 1998.	
	46.	K. Powers et al., The 60° Grid: Routing Channels in Width d/square root 3, VLSI, 1991, Proceedings., First Great Lakes Symposium on Kalamazoo, MI, USA, pp 214-291, March 1991.	
	47.	M. Alexander et al., Performance-Oriented Placement and Routing for field-programmable gate arrays, Proceedings of the European Design Automation Conference, pages 80-85, 1995.	
	48.	M. Alexander et al., Placement and Routing for Performance-Oriented FPGA Layout, VLSI Design, Vol. 7, No. 1, 1998.	
	49.	M. Igarashi et al., A Diagonal-Interconnect Architecture and Its Application to RISC Core Design, 2002 IEEE Solid-State Circuits Conference, pp 210-460, February 2002.	
	50.	P. Dood, et al. A Two-Dimensional Topological Compactor with Octagonal Geometry, 28 <sup>th</sup> ACM/IEEE Design Automation Conference, pp 727-731, July 1991.	
	51.	P. Parikh, et al., Congestion Driven Quadratic Placement, Proceedings of Design Automation Conference, 1998, pp 275-278.	
	52.	R. Putatunda et al., VITAL: Fully Automatic Placement Strategies for Very Large Semicustom Designs, Proceedings of the International Conference on Computer Design: VLSI in Computers and Processors, pp 434-439 October 1988.	
	53.	S. Dutt et al., Probability-Based Approaches to VLSI Circuit Partitioning, IEEE Trans. on Computer-Aided Design of IC's and Systems, Vol. 19, No. 5, May 2000, pp 534-549.	
	54.	Y. Sekigama et al., Timing-Oriented Routers for PCB Layout Design of High-Performance Computers, International Conference on Computer Aided Design, pp 332-335, November 1991.	

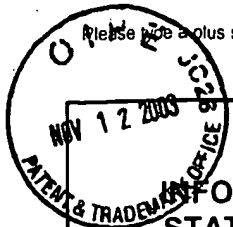
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Substitute for form 1449A/PTO				Application Number	09/732,181
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)				Filing Date	12/6/00
				First Named Inventor	Steven Teig
				Group Art Unit	2825
				Examiner Name	Leigh M. Garbowski
Sheet	1	of	7	Attorney Docket Number	SPLX.P0003

U.S. PATENT DOCUMENTS						
Examiner* Initials	Cite No.	U.S. Patent Document		Date of Publication MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
h	1.	2001/0009 031	A1	07-19-2001	Nitta et al.	
	2.	2002/0182 844	A1	12-05-2002	Igarashi et al.	
	3.	2003/0025 205	A1	02-06-2003	Shively	
	4.	2003/0005 399	A1	01-02-2003	Igarashi et al.	
	5.	4,593,363		06-03-1986	Burstein et al.	
	6.	4,855,929		08-08-1989	Nakajima	
	7.	5,375,069		12-20-1994	Satoh et al.	
	8.	5,587,923		12-24-1996	Wang	
	9.	5,618,744		04-08-1997	Suzuki et al.	
	10.	5,633,479		05-27-1997	Hirano	
	11.	5,637,920		06-10-1997	Loo	
	12.	5,640,327		06-17-1997	Ting	
	13.	5,663,891		09-02-1997	Bamji et al.	
	14.	5,757,089		05-26-1998	Ishizuka	
	15.	5,784,289		07-28-1998	Wang	
	16.	5,798,936		08-25-1998	Cheng	
	17.	5,838,583		11-1998	Varadarajan et al.	
	18.	5,889,677		03-30-1999	Yasuda et al.	
	19.	5,980,093		11-09-1999	Jones et al.	
	20.	6,070,108		05-30-2000	Andreev et al.	

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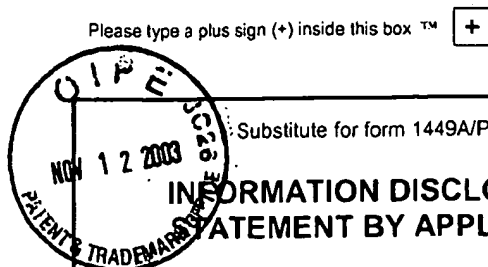
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				Examiner Name	Leigh M. Garbowski
Sheet	2	of	7	Attorney Docket Number	SPLX.P0003

U.S. PATENT DOCUMENTS						
21.	6,128,767		10-03-2000	Chapman		
22.	6,209,123	B1	03-27-2001	Maziasz et al.		
23.	6,253,363	B1	06-26-2001	Gasanov et al.		
24.	6,295,634	B1	09-25-2001	Matsumoto		
25.	6,324,674	B2	11-27-2001	Andreev et al.		
26.	6,324,675	B1	11-27-2001	Dutta et al.		
27.	6,327,693	B1	12-04-2001	Cheng et al.		
28.	6,330,707		12-11-2001	Shinomiya et al.		
29.	6,378,121	B1	04-23-2002	Hiraga		
30.	6,407,434	B1	06-18-2002	Rostoker et al.		
31.	6,412,102	B1	06-25-2002	Andreev et al.		
32.	6,415,422	B1	07-02-2002	Mehrotra et al.		
33.	6,442,743	B1	08-27-2002	Sarrafzadeh et al.		
34.	6,448,591	B1	09-10-2002	Juengling		
35.	6,473,891	B1	10-29-2002	Shively		
36.	6,480,991	B1	11-12-2002	Cho et al.		
37.	6,490,713	B2	12-03-2002	Matsumoto		
38.	6,519,751	B2	02-11-2003	Sriram et al.		
39.	6,543,043	B1	04-01-2003	Wang et al.		
40.	6,546,540	B1	04-08-2003	Igarashi et al.		
41.	6,557,145	B2	04-29-2003	Boyle et al.		
42.	6,567,967	B2	05-20-2003	Greidinger et al.		

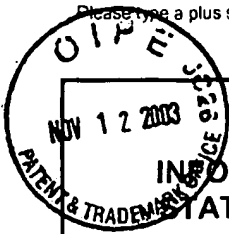
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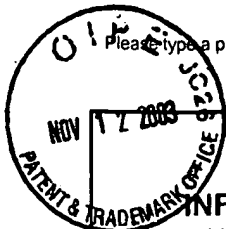
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		Office <sup>3</sup>	Number <sup>4</sup>	Kind Cod (if known)				
	43.	JP	411296560	A	Matsumoto et al.	10-29-1999	with English translation of Abstract;	
M	44.	JP	2000-82743	A	Igarashi et al.	03-21-2000	with Japanese Patent Office's English translation of Abstract; and with English translation of the application.	✓
	45.	JP	H03-173471	A	Tawada et al.	07-26-1991	with Japanese Patent Office's English translation of Abstract; and with English translation of the application.	✓
	46.	JP	H05-243379	A	Masako Kubota	09-21-1993	with Japanese Patent Office's English translation of Abstract; and with English translation of the application.	✓
	47.	JP	H05-102305	A	Akihiro Sato	04-23-1993	with Japanese Patent Office's English translation of Abstract; and with English translation of the application.	✓
	48.	JP	H07-86407	A	Shinpei Miura	03-31-1995	with Japanese Patent Office's English translation of Abstract; and with English translation of the application.	✓

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FOREIGN PATENT DOCUMENTS								
	49.	JP	H09-162279	A	Masaaki Yoshida	06-20-1997	with Japanese Patent Office's English translation of Abstract; and with English translation of the application.	✓

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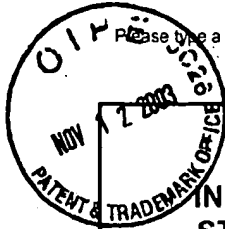
FOREIGN PATENT DOCUMENTS			
NON PATENT LITERATURE DOCUMENTS			
Examiner's Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>6</sup>
5	50.	Ahuja, R. et al., Faster Algorithms for the Shortest Path Problem, Journal of the Association for Computing Machinery, vol. 37, No. 2, April 1990, pp. 213-223.	
	51.	Brady, L. et al., Channel Routing on a 60° Grid, extended abstract, pp. 956-931.	
	52.	Brambilla, A. et al., Statistical Method for the Analysis of Interconnects Delay in Submicrometer Layouts, IEEE, 8/2001, pp. 957-966.	
	53.	Carothers, K., A Method of Measuring Nets Routability for MCM's General Area Routing Problems, 1999, pp. 186-192.	
	54.	Chen, H. et al., Physical Planning of On-Chip Interconnect Architectures, 2002, IEEE, International Conference, pp. 30-35.	
	55.	Cheng, K. et al., Manhattan or Non Manhattan? A Study of Alternative VLSI Routing Architectures, pp 47-52, 2000.	
	56.	Cheng, K., Steiner Problem in Octilinear Routing Model, a Thesis Submitted for the Degree of Master of Science, National University Singapore, 1995, pp. 1-122.	
	57.	Chip Model with Wiring Cost Map, August 1983, IBM Technical Disclosure Bulletin, vol. 26, iss. 3A, pp. 929-933.	
	58.	Cong, J. et al., Efficient Heuristics for the Minimum Shortest Path Steiner Arborescence Problem with Applications to VLSI Physical Design, Cadence Design Systems and UCLA Computer Science Department, pp.88-95.	
	59.	Cong, J. et al., Performance-Driven Multi-Layer General Routing for PCB/MCM Designs, UCLA Computer Science Department, 1998, pp. 356-361.	
	60.	Enbody, R. et al., Near-Optimal n-Layer Channel Routing, 23 <sup>rd</sup> Design Automation Conference, 1986, pp. 708-714.	
	61.	Fang, S. et al., Constrained Via Minimization with Practical Considerations for Multi-Layer VLSI/PCB Routing Problems, 28 <sup>th</sup> ACM/IEEE Design Automation Conference, 1991, pp. 60-65.	
62.	Hom, I. et al., Estimation of the Number of Routing Layers and Total Wirelength in a PCB Through Wiring Distribution Analysis, 1996, pp. 1-6.		

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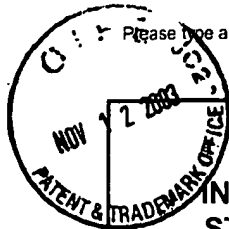
FOREIGN PATENT DOCUMENTS		
63.	Hong, X. et al., Performance-Driven Steiner Tree Algorithms for Global Routing, 30 <sup>th</sup> ACM/IEEE Design Automation Conference, 1993, pp. 177-181.	
64.	Hu, J et al.: "A Timing-Constrained algorithm for Simultaneous Global Routing of Multiple Nets" IEEE/ACM International Conference on Computer Aided Design. ICCAD - 2000. IEEE/ACM Digest of Technical Papers (CAT. NO.00CH37140), Proceedings of International Conference on Computer Aided Design (ICCAD), San Jose, CA USA, 5-9 Nov. 2000. Pages 99-103.	
65.	Kastner R et al.: "Predictable Routing" IEEE/ACM International Conference on Computer Aided Design. ICCAD - 2000. IEEE/ACM Digest of Technical Papers (CAT. NO.00CH37140), Proceedings of International Conference on Computer Aided Design (ICCAD), San Jose, CA, USA, 5-9 Nov. 2000. Pages 110-113.	
66.	Khoo, K. et al., An Efficient Multilayer MCM Router Based on Four-Via Routing, 30 <sup>th</sup> ACM/IEEE Design Automation Conference, 1993, pp. 590-595.	
67.	Lillis, J. et al., Table-Lookup Methods for Improved Performance-Driven Routing, 1998, pp. 368-373.	
68.	Lipski, W. et al., A Unified Approach to Layout Wirability, Mathematical Systems Theory, 1987, pp. 189-203.	
69.	Lodi, E. et al., A Preliminary Study of a Diagonal Channel-Routing Model, Algorithmica, 1989, pp.585-597.	
70.	Lodi, E. et al., Lecture Notes in Computer Science, A 4d Channel Router for a Two Layer Diagonal Model, pp. 464-476, July 1988.	
71.	Naclerio, N. et al., Via Minimization for Gridless Layouts, 24 <sup>th</sup> ACM/IEEE Design Automation Conference, 1987, pp. 159-165.	
72.	Nam, G. et al, Satisfiability-Based Layout Revisited: Detailed Routing of Complex FPGAs Via Search-Based Boolean SAT, 1999, pp. 167-175..	
73.	Oh, J. et al., Constructing Lower and Upper Bounded Delay Routing Trees Using Linear Programming, 33 <sup>rd</sup> Design Automation Conference, 1996.	
74.	Partitioning Logic on to Graph Structure, IBM Technical Disclosure Bulletin, February 1990, vol. 32, iss. 9A, pp. 469-475.	
75.	Phillips, N., Channel Routing by Constraint Logic, Department of Computer Science Southern Illinois University, ACM, 1992.	

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				<b>Filing Date</b>	12/6/00
				<b>First Named Inventor</b>	Steven Teig
				<b>Group Art Unit</b>	2825
				<b>Examiner Name</b>	Leigh M. Garbowski
<b>Sheet</b>	7	<b>of</b>	7	<b>Attorney Docket Number</b>	SPLX.P0003

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### FOREIGN PATENT DOCUMENTS

76.	Takashima, Y. et al, Routability of FPGAs with Extremal Switch-Block Structures, IEICE Trans. Fundamentals, vol. E81-A, No. 5, May 1998, pp. 850-856.
77.	Thakur, S. et al., Algorithms for a Switch Module Routing Problem, 1994, pp. 265-270.
78.	Theune, D., et al., HERO: Hierarchical EMC-constrained routing, 11/1992, IEEE pp 468-472
79.	Tseng, H., Timing and Crosstalk Driven Area Routing, pp. 378-381.
80.	Wang, D., Novel Routing Schemes for IC Layout, Part I: Two-Layer Channel Routing, 28 <sup>th</sup> ACM/IEEE Automation Conference, 1991, pp. 49-53.
81.	Wang, M. et al., Modeling and Minimization of Routing Congestion, Jan. 2000, IEEE proceedings of ASP-DAC, Asia and South Pacific, pp. 185-190.
82.	Wood, G. et al., FPGA Routing and Routability Estimation Via Boolean Satisfiability, Department of Electrical and Computer Engineering Carnegie Mellon University, Pittsburgh, PA, pp. 119-125.
83.	Zhang, C.X. et al., Floorplan Design Using a Hierarchical Neural Learning Algorithm, IEEE, 6/1991. pp. 2060-2063.
84.	Zhou, H. et al., An Optimal Algorithm for River Routing with Crosstalk Constraints, 1996.
85.	Zhou, H. et al., Global Routing with Crosstalk Constraints, Department of Computer Sciences, University of Texas, 1998, pp. 374-377.
86.	Zhou, H. et al., Optimal River Routing with Crosstalk Constraints, ACM Transactions on Design Automation of Electronic Systems, vol. 3, No. 3, July 1998, pp. 496-514.

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